



## ***ATP Awardee Demographics: How medium-sized firms are faring in the ATP compared with small and large firms?***

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ATP Advisory Committee Meeting  
Tuesday, May 16, 2000



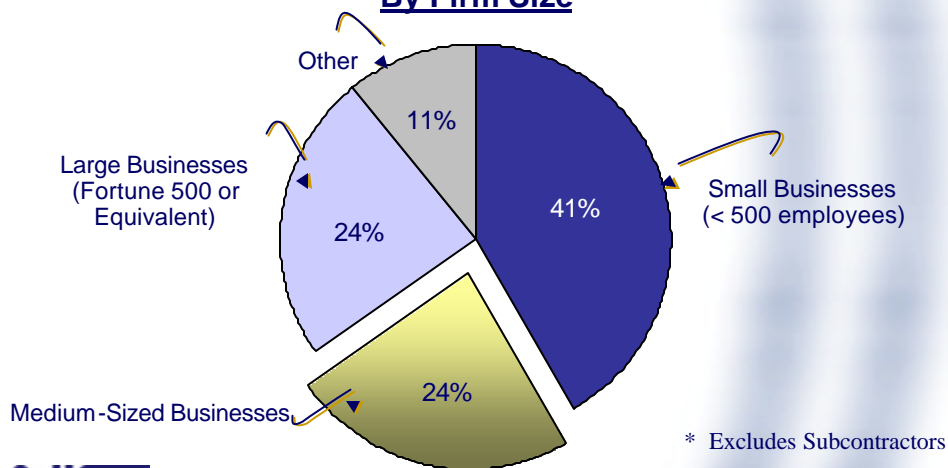
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## ***ATP Participants 1990-1999— Focus on Medium-sized Firms***

***1,067 Participants\* in 468 Awards***

### **By Firm Size**



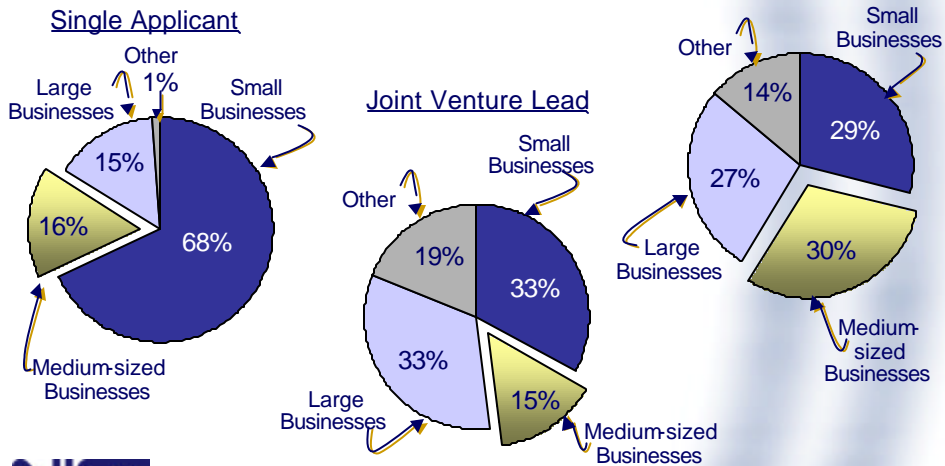
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## ATP Participants 1990-1999: Focus on Medium-sized Firms

1,067 Participants in 468 Awards

By Type of Participation and Firm Size



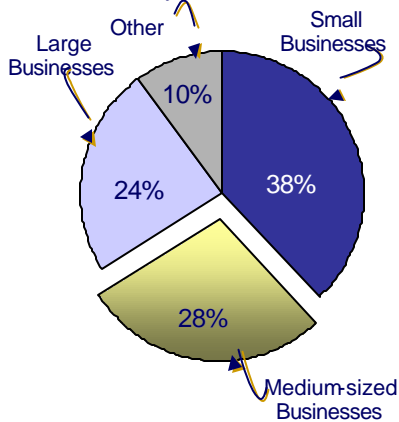
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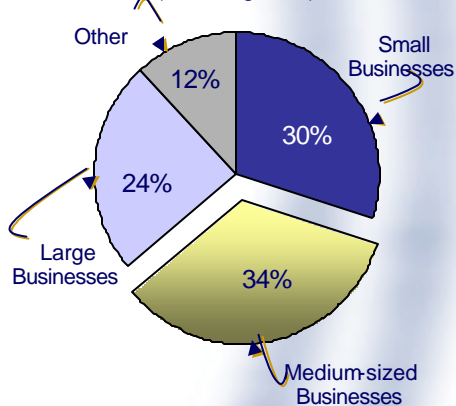
## ATP Participants Focused Programs

247 Projects 649 Participants

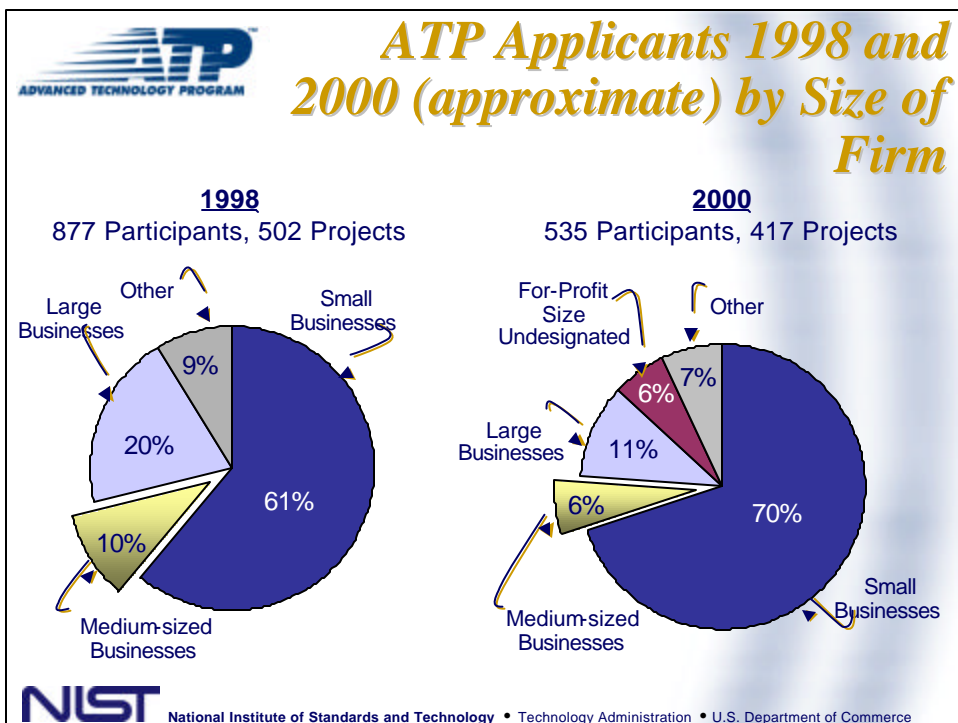
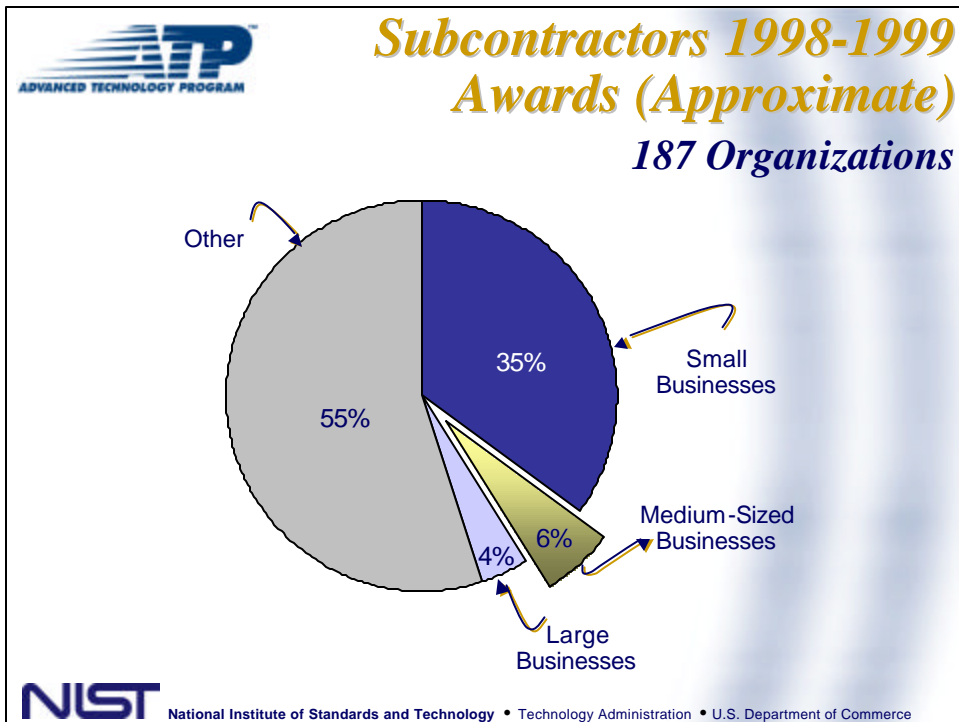
All Focused Program Participants  
by Firm Size

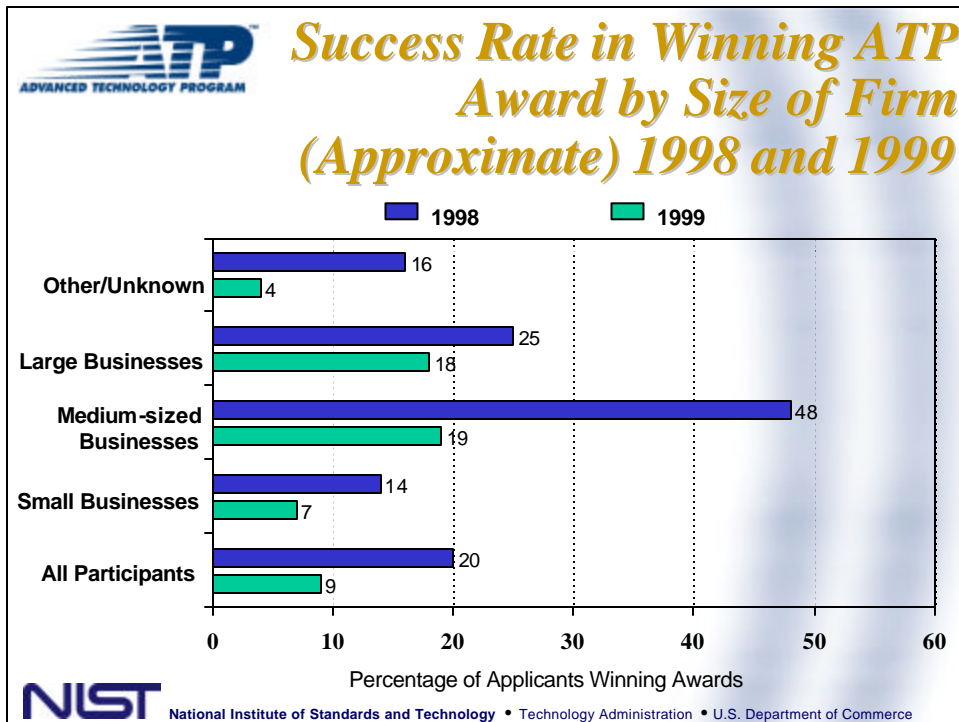


Joint Venture Participants  
by Firm Size  
(excluding Lead)



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**ATP**  
ADVANCED TECHNOLOGY PROGRAM

### *ATP Participants By Firm Size—Focus on Medium-sized Firms*

Conclusion . . .

- Medium-sized businesses are participating in awards at about the same rate as large businesses.

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## *ATP Participants By Type of Participation and Firm Size—Focus on Medium-sized Firms*

Conclusion . . .

- Medium-sized firms participate most frequently as Joint Venture (JV) members (but not as Lead). They represent the largest group among JV participants.



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## *ATP Participants Focused Programs Focus on Medium-sized Firms*

Conclusion . . .

- Medium-sized firm participation has been higher in Focused Program awards than in General Competitions/Open Competitions.



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## *Success Rate—Focus on Medium-sized Firms*

Conclusion . . .

- For limited period for which data are available: medium-sized businesses have had a high success rate in winning awards compared with other groups of applicants.



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## *Implications--Focus on Medium-sized Firms*

Conclusion . . .

- Medium-sized businesses are likely to find opportunity in increased joint-venture activity and Focused Programs.



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## *Findings from Status Reports of First 50 Completed Projects*

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## *ATP Portfolio Consists of 468 Projects*

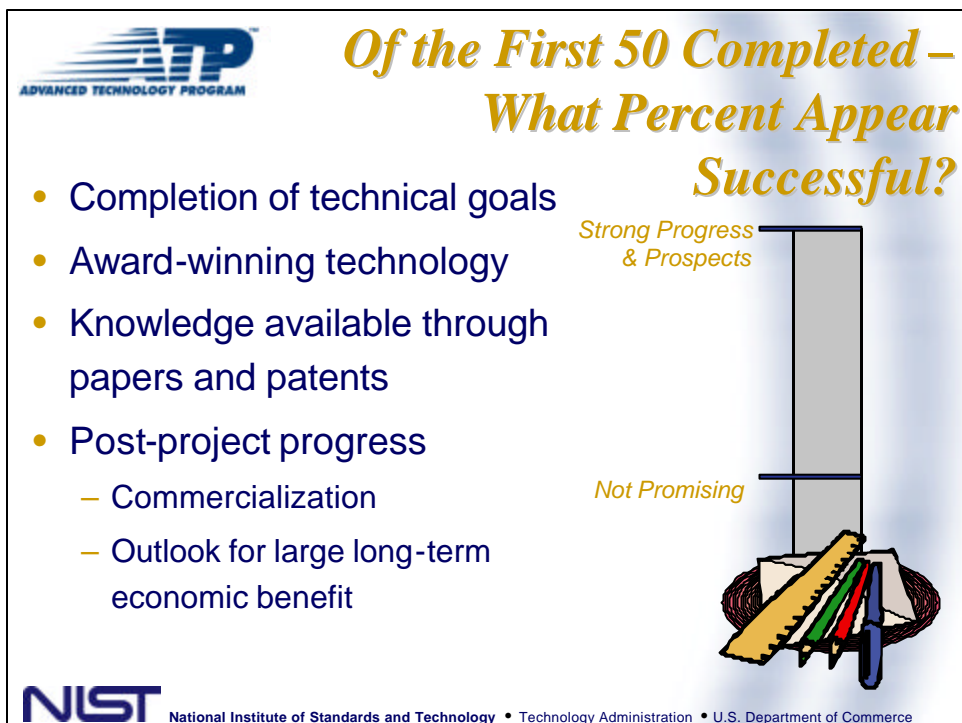
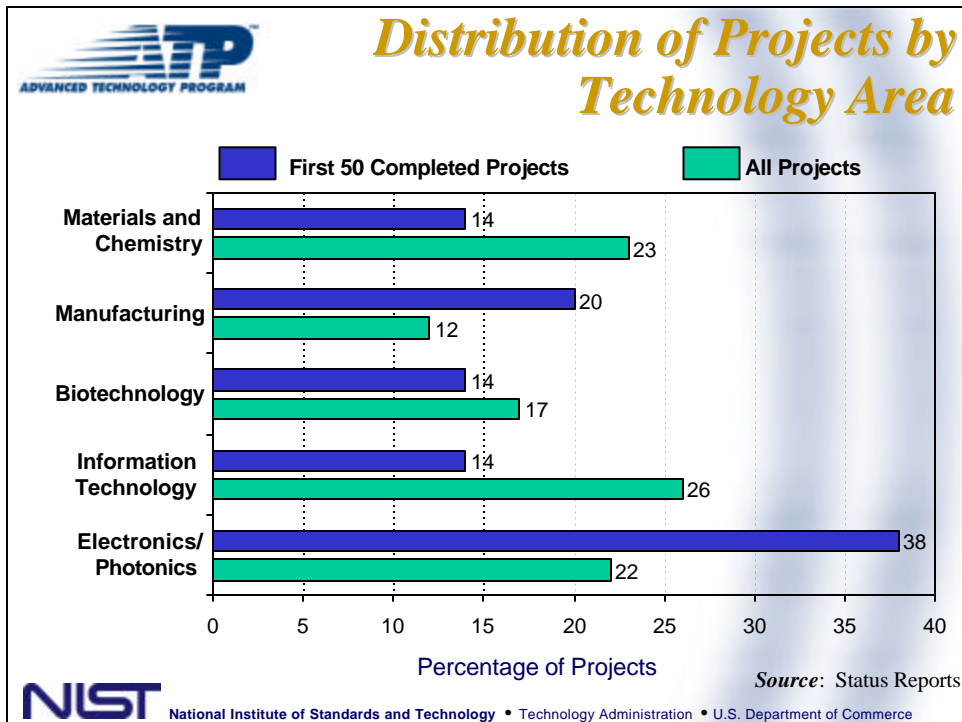
Project Status (as of May 2000)					
Completed				Terminated	Underway
Total	First Group Analyzed	Analysis Nearing Completion	In the Queue		
209	38	12	159		
				39	220

Source: Status Reports



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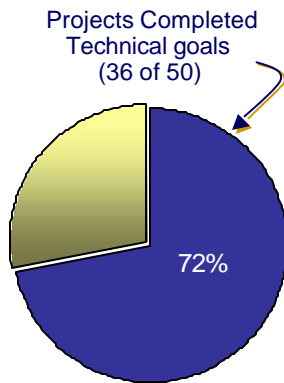




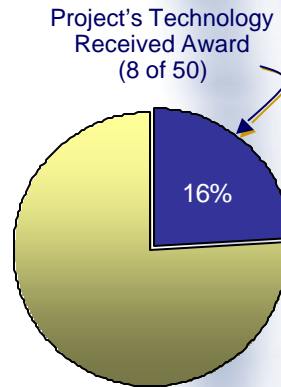




## Overview of First Completed Projects



**Completion of Technical Goals**



**Award-winning Technology**

Source: Status Reports

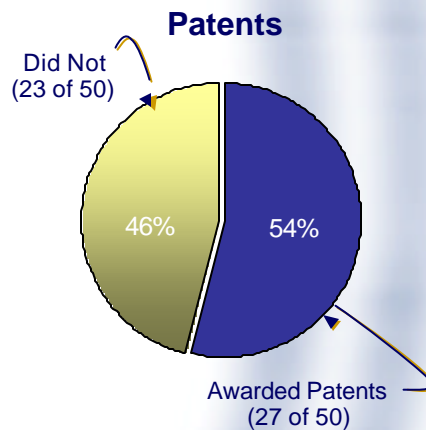
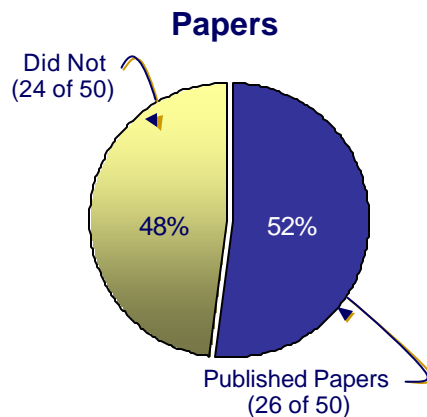


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## Overview of First Completed Projects

### Knowledge Made Available Through Papers and Patents



Source: Status Reports



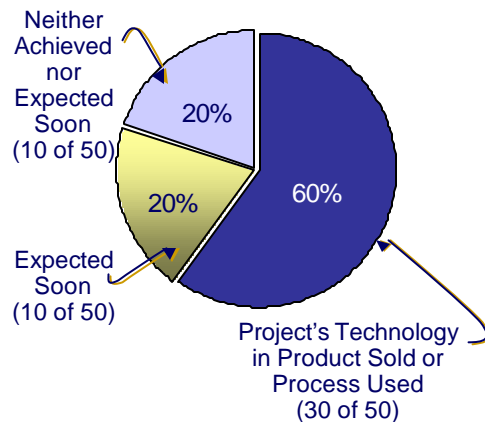
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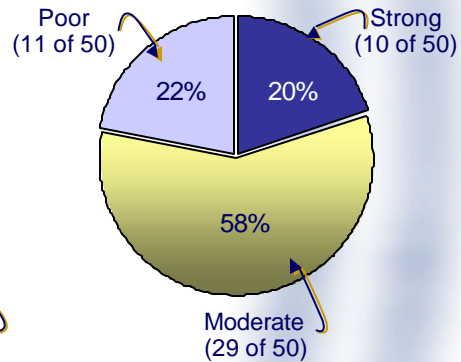
## Overview of First Completed Projects

### Post-Project Progress

#### Commercialization



#### Outlook for Large Economic Benefit (Approximate)



Source: Status Reports

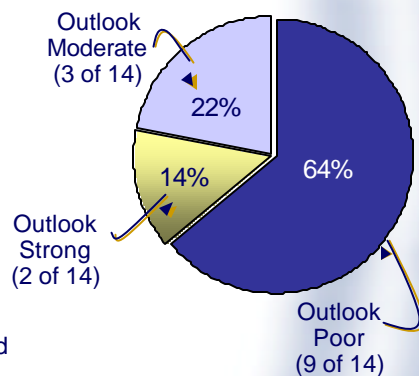
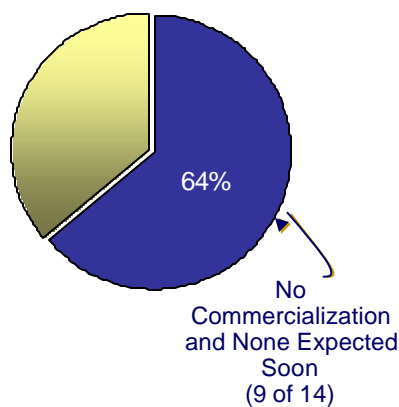


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## Tie Between Not Achieving All Technical Goals and Poor Post-Project Performance

### Projects Not Achieving Technical Goals



Source: Status Reports



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## *A Look at the Strongest Projects of the First 38*

Project	Technical Area
Aastrom Biosciences, Inc.	Human Stem Cell Growth
Engineering Animation, Inc.	Animation of the Body
Auto Body Consortium	Dimensional Process Control
Tissue Engineering	New Prosthetic Fabrics
Molecular Simulations	Software to Calculate Molecular Structures
American Superconductor Corp.	Superconductivity Coils for Electric Motors
Torrent Systems	Programmer's Tool for Writing Parallel Processing Software

Source: Status Reports



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## *A Look at the Strongest Projects of the Next 12*

Project	Technical Area
U.S. Biochemical (Amersham)	Enzymes for DNA Sequencing
NCMS	Manufacturing Process for Making Printed Wiring Boards
3M – Sage	Electrochromic Materials for "Smart Windows"

Source: Status Reports



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- Problems Encountered

- Changes Anticipated

